

**WHAT IS CLAIMED IS:**

1. A carrier medium comprising program instructions for developing a reinsurance administration system, wherein the program instructions are computer-executable to implement a method of:
  - 5 deriving one or more business processes from a business process framework, wherein the business process framework comprises common functionality for the one or more business processes, and wherein the business process framework comprises a plurality of support processes and a plurality of hook methods;
  - 10 identifying one or more of the support processes for each of the business processes;
  - 15 combining the business processes to build one or more application programs for reinsurance administration.
- 15 2. The carrier medium of claim 1, wherein the program instructions are further computer-executable to implement:
  - 20 overriding one or more of the hook methods for each of the business processes to access stages in an execution of the business process.
- 20 3. The carrier medium of claim 2,
  - 25 wherein deriving the plurality of business processes from the business process framework further comprises deriving one or more business process subclasses from one or more abstract business process classes, wherein the business process framework comprises the one or more abstract business process classes;
  - 30 wherein overriding one or more of the hook methods further comprises replacing one or more of the hook methods inherited from the abstract business process classes with one or more new methods.
- 35 4. The carrier medium of claim 1,

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wherein one of the hook methods comprises a method to be executed during initialization of one or more of the business processes.

5. The carrier medium of claim 1,

wherein one of the hook methods comprises a method to be executed prior to execution of a data entry support process.

6. The carrier medium of claim 1,

wherein one of the hook methods comprises a method to be executed during 10 execution of data entry without a user interface.

7. The carrier medium of claim 1,

wherein one of the hook methods comprises a method to be executed prior to execution of a database commit support process.

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8. The carrier medium of claim 1,

wherein one of the hook methods comprises a method to be executed prior to execution of a database rollback support process.

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9. The carrier medium of claim 1,

wherein one of the hook methods comprises a method to be executed during validation of data.

10. The carrier medium of claim 1,

25 wherein deriving the plurality of business processes from the business process framework further comprises deriving one or more business process subclasses from one or more abstract business process classes, wherein the business process framework comprises the one or more abstract business process classes.

11. The carrier medium of claim 1,  
wherein identifying one or more of the support processes for each of the business  
processes further comprises overriding one or more of the hook methods for each of the  
business processes.

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12. The carrier medium of claim 1,  
wherein the business process framework further comprises a template for  
executing the business processes.

10 13. The carrier medium of claim 1,  
wherein the support processes further comprise support processes for performing  
precondition checks.

14. The carrier medium of claim 1,  
15 wherein the support processes further comprise support processes for performing  
syntax validation.

15. The carrier medium of claim 1,  
wherein the support processes further comprise support processes for a graphical  
20 user interface.

16. The carrier medium of claim 1,  
wherein the support processes for security further comprise a support process for  
controlling access to a use case as a function of an access right of a user.

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17. The carrier medium of claim 1,  
wherein the common functionality of the business process framework comprises  
behavior for buttons in a graphical user interface.

18. The carrier medium of claim 1,  
wherein the common functionality of the business process framework comprises  
functionality for formatting and displaying windows in a graphical user interface.
- 5 19. The carrier medium of claim 1,  
wherein the common functionality of the business process framework comprises  
methods of abstract business process classes which are inherited by business process  
subclasses.
- 10 20. The carrier medium of claim 1,  
wherein the common functionality of the business process framework comprises  
an order for executing steps in the business processes.
- 15 21. The carrier medium of claim 20,  
wherein the steps comprise pre-execution, data entry, data validation, pre-  
commission, commission, and post-commission.
- 20 22. The carrier medium of claim 1,  
wherein the common functionality of the business process framework comprises  
functionality for logging and displaying error messages.
- 25 23. The carrier medium of claim 1,  
wherein the common functionality of the business process framework comprises  
functionality for committing changes to a database.
24. The carrier medium of claim 1, wherein the program instructions are further  
computer-executable to implement:  
configuring a first business process to invoke a second business process.

25. The carrier medium of claim 1, wherein the program instructions are further computer-executable to implement:  
storing the one or more application programs on a storage device.

5 26. The carrier medium of claim 1,  
wherein the carrier medium comprises a memory medium.

27. The carrier medium of claim 1,  
wherein the carrier medium comprises a transmission medium.

10 28. A method for developing a reinsurance administration system, the method comprising:

15 deriving one or more business processes from a business process framework, wherein the business process framework comprises common functionality for the one or more business processes, and wherein the business process framework comprises a plurality of support processes and a plurality of hook methods;

identifying one or more of the support processes for each of the business processes;

20 combining the business processes to build one or more application programs for reinsurance administration.

25 29. The method of claim 28, further comprising:

overriding one or more of the hook methods for each of the business processes to access stages in an execution of the business process.

30. The method of claim 29,

wherein deriving the plurality of business processes from the business process framework further comprises deriving one or more business process subclasses from one

or more abstract business process classes, wherein the business process framework comprises the one or more abstract business process classes;

wherein overriding one or more of the hook methods further comprises replacing one or more of the hook methods inherited from the abstract business process classes  
5 with one or more new methods.

31. The method of claim 28,

wherein one of the hook methods comprises a method to be executed during initialization of one or more of the business processes.

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32. The method of claim 28,

wherein one of the hook methods comprises a method to be executed prior to execution of a data entry support process.

15 33. The method of claim 28,

wherein one of the hook methods comprises a method to be executed during execution of data entry without a user interface.

34. The method of claim 28,

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wherein one of the hook methods comprises a method to be executed prior to execution of a database commit support process.

35. The method of claim 28,

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wherein one of the hook methods comprises a method to be executed prior to execution of a database rollback support process.

36. The method of claim 28,

wherein one of the hook methods comprises a method to be executed during validation of data.

37. The method of claim 28,  
wherein deriving the plurality of business processes from the business process framework further comprises deriving one or more business process subclasses from one or more abstract business process classes, wherein the business process framework comprises the one or more abstract business process classes.
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38. The method of claim 28,  
wherein identifying one or more of the support processes for each of the business processes further comprises overriding one or more of the hook methods for each of the business processes.
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39. The method of claim 28,  
wherein the business process framework further comprises a template for executing the business processes.
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40. The method of claim 28,  
wherein the support processes further comprise support processes for performing precondition checks.
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41. The method of claim 28,  
wherein the support processes further comprise support processes for performing syntax validation.
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42. The method of claim 28,  
wherein the support processes further comprise support processes for a graphical user interface.
43. The method of claim 28,

wherein the support processes for security further comprise a support process for controlling access to a use case as a function of an access right of a user.

44. The method of claim 28,

5 wherein the common functionality of the business process framework comprises behavior for buttons in a graphical user interface.

45. The method of claim 28,

10 wherein the common functionality of the business process framework comprises functionality for formatting and displaying windows in a graphical user interface.

46. The method of claim 28,

15 wherein the common functionality of the business process framework comprises methods of abstract business process classes which are inherited by business process subclasses.

47. The method of claim 28,

20 wherein the common functionality of the business process framework comprises an order for executing steps in the business processes.

48. The method of claim 47,

wherein the steps comprise pre-execution, data entry, data validation, pre-commission, commission, and post-commission.

25 49. The method of claim 28,

wherein the common functionality of the business process framework comprises functionality for logging and displaying error messages.

50. The method of claim 28,

wherein the common functionality of the business process framework comprises functionality for committing changes to a database.

51. The method of claim 28, further comprising:

5       configuring a first business process to invoke a second business process.

52. The method of claim 28, further comprising:

storing the one or more application programs on a storage device.

10 53. A system for developing a reinsurance administration system, the system comprising:

a business process framework, wherein the business process framework comprises a plurality of hook methods, one or more abstract business process classes, and a plurality of support processes;

15       a plurality of business process subclasses derived from the abstract business process classes of the business process framework, wherein at least one of the business process subclasses specifies one or more of the support processes, wherein at least one of the business process subclasses overrides one or more of the hook methods, and wherein the business process subclasses are configurable to build a computer-executable program  
20       for reinsurance administration.

54. The system of claim 53,

wherein the business process framework comprises common functionality for the plurality of business process subclasses, wherein the common functionality of the  
25 business process framework comprises methods of the one or more abstract business process classes which are inherited by the one or more business process subclasses.

55. The system of claim 54,

wherein the common functionality further comprises functionality for a graphical user interface.

56. The system of claim 54,

5 wherein the common functionality further comprises functionality for logging and displaying error messages.

57. The system of claim 54,

10 wherein the common functionality further comprises an order for executing steps in business process objects instantiated from the business process subclasses.

58. The system of claim 57,

15 wherein the steps comprise pre-execution, data entry, data validation, pre-commission, commission, and post-commission.

59. The carrier medium of claim 1,

wherein the support processes comprise support processes for data validation.

60. The carrier medium of claim 1,

20 wherein the support processes comprise support processes for security.

61. The carrier medium of claim 1,

25 wherein the support processes comprise support processes for persistent data storage.

62. The method of claim 28,

wherein the support processes comprise support processes for data validation.

63. The method of claim 28,

wherein the support processes comprise support processes for security.

64. The method of claim 28,

wherein the support processes comprise support processes for persistent data  
5 storage.

65. The system of claim 53,

wherein the support processes comprise support processes for data validation.

10 66. The system of claim 53,

wherein the support processes comprise support processes for security.

67. The system of claim 53,

wherein the support processes comprise support processes for persistent data  
15 storage.